

# Total Maximum Daily Load Studies for Accotink Creek and Difficult Run



Technical Advisory Committee Meeting #2  
November 28, 2007

# TMDL Studies for Accotink Creek and Difficult Run

Stream Name	Locality	Impairments	Area (miles)	Upstream Limit	Downstream Limit
Accotink Creek	Fairfax County City of Fairfax	Fecal Coliform Bacteria Benthic	7.35	Confluence of Accotink Creek with Calamo Branch	End of the free- flowing waters of Accotink Creek (Route 1)
Difficult Run	Fairfax County City of Fairfax	Fecal Coliform Bacteria Benthic	2.93	Confluence of Difficult Run with Captain Hickory Run	Confluence with the Potomac River

# What is a TMDL ?

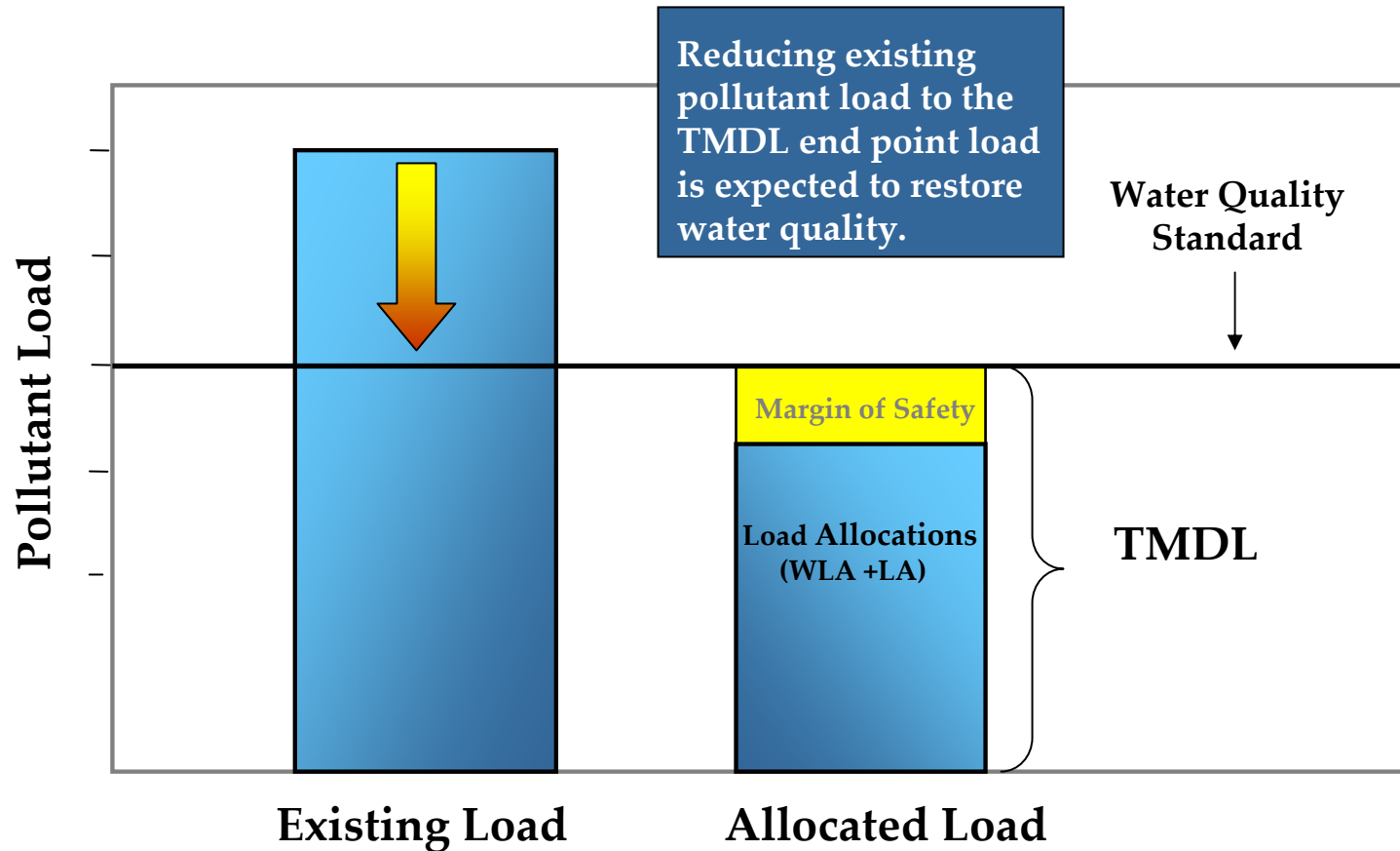
## *Total Maximum Daily Load*

$$\text{TMDL} = \text{Sum of WLA} + \text{Sum of LA} + \text{MOS}$$

Where:

TMDL	=	Total Maximum Daily Load
WLA	=	Waste Load Allocation (point sources)
LA	=	Load Allocation (nonpoint sources)
MOS	=	Margin of Safety

# *An Example TMDL*

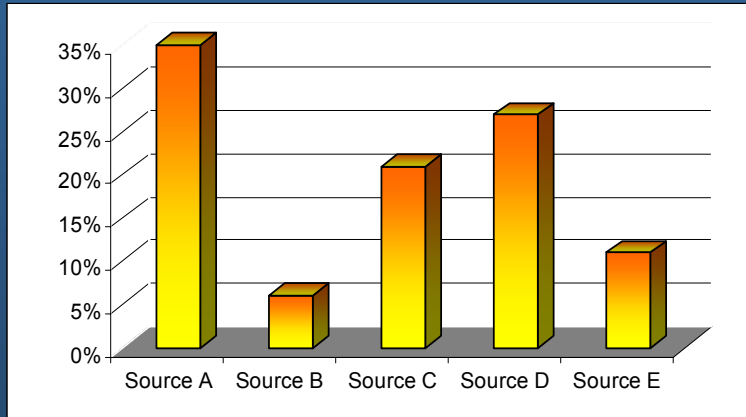


# TMDL Development Methodology

1. **Bacteria TMDL:** Identify sources of a given pollutant within the watershed.



**Benthic TMDL:** Determine most likely stressor, then identify sources of that stressor.



2. Calculate the amount of pollutant entering the stream from each source type

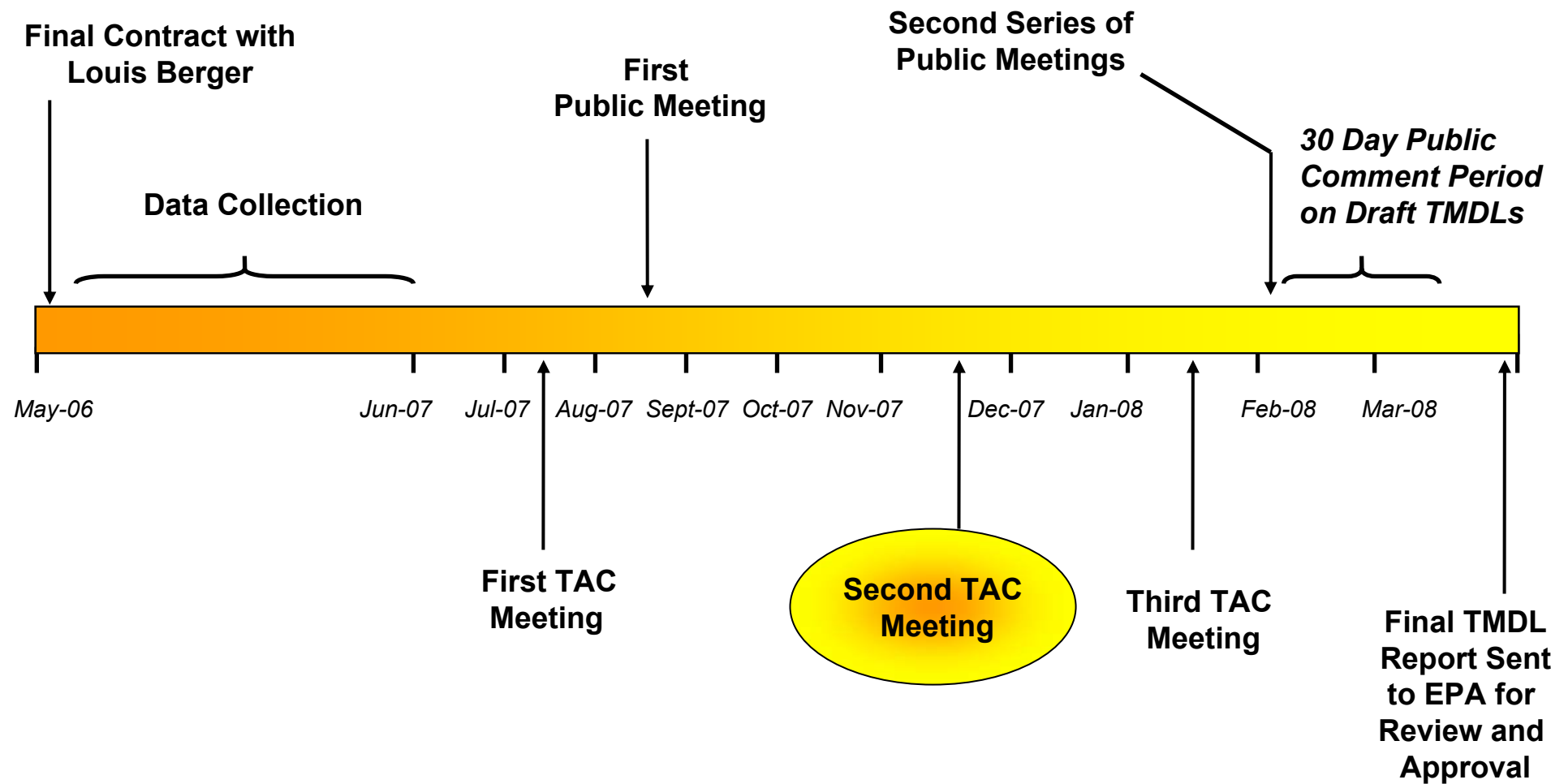
3. Enter available data into a computer model. Model simulates pollutant loadings into the watershed.

4. Use the model to calculate the pollutant reductions needed, by source, to attain Water Quality Standards

5. Allocate the allowable loading to each source and include a margin of safety



# Accotink Creek and Difficult Run Bacteria and Benthic TMDLs Project Milestones



# *Comments? Feedback?*

- Public Comment Period for this meeting extends from November 28, 2007 to December 27, 2007.
- All comments should be in writing. Please send them to:

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